

April 11, 1941

TITLE 7 -- AGRICULTURE

CHAPTER III -- BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301 -- DOMESTIC QUARANTINE NOTICES

JAPANESE BEETLE ADMINISTRATIVE INSTRUCTIONS MODIFIED

Introductory note. It has been found as a result of further experiments with treatments for freeing nursery stock and potted plants from the immature stages of the Japanese beetle, that $2\frac{1}{2}$ pounds of methyl bromide per 1,000 cubic feet applied for a period of $3\frac{1}{2}$ hours at a temperature of not less than 57° F., or for 3 hours at not less than 60° F., is sufficient to kill such larvae. These instructions are accordingly revised to authorize the use of such treatments in addition to the four schedules heretofore provided for in the second revision of supplement No. 1 to this circular.

§ 301.48-b Administrative instructions to inspectors on the treatment of nursery products, fruits, vegetables, and soil, for the Japanese beetle. Treatment authorized. Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by § 301.48-6, Chapter III, Title 7, Code of Federal Regulations [regulation 6 of the rules and regulations supplemental to Notice of Quarantine No. 48] subsection (1) (5) of § 301.48b* [on page 13 of the mimeographed edition of circular B. E. P. Q. 499, issued June 9, 1939] is hereby further modified to read as follows:

(5) Methyl bromide fumigation

Equipment.--An approved fumigation chamber equipped with vaporizing, air-circulating, and ventilating systems must be provided.

Application.--After the chamber is loaded, the methyl bromide must be vaporized within it. The air within the chamber must be kept in circulation during the period of fumigation. At the completion of the treatment, the chamber must be well ventilated before it is entered and the plants removed. The ventilating system should also be in continuous operation during the entire period of removal of the fumigated articles.

- (i) Fumigation of plants, with or without soil

*This section was originally issued as § 301.48a.

Temperatures, periods of treatment, and dosages.--The temperature of the soil (with bare root stock, the root spaces) and of the air for each type of treatment must remain throughout the entire period of treatment at the minimum specified in the following table, or higher:

Temperature at least	:	:	:	:	:	Dosage
:	:	Period of	:	:	:	(methyl bromide per
:	:	treatment	:	:	:	1,000 cubic feet)
:	:	:	:	:	:	Pounds
:	:	Hours	:	:	:	:
1. 70° F-----	:	2½	:	:	:	2
2. 63° F-----	:	2½	:	:	:	2½
3. 60° F-----	:	3	:	:	:	2½
4. 57° F-----	:	3½	:	:	:	2½
5. 54° F-----	:	4	:	:	:	2½
6. 50° F-----	:	4½	:	:	:	2½

The dosage shall be for each 1,000 cubic feet including the space occupied by the load.

Preparation of plants.--The treatment is to be applied to plants with bare roots or in 12-inch pots or smaller, or in soil balls not larger than 12 inches in diameter nor thicker than 12 inches when not spherical. The soil should not be puddled or saturated and must be in a condition which in the judgment of the inspector is suitable for fumigation. The plants should be stacked on racks or separated so that the gas can have access to both top and bottom surfaces of pots or soil balls. While not essential that the balls be completely separated from each other they should not be jammed tightly together. Treatments 1 and 2 may be employed in fumigating packaged plants prepared in a manner satisfactory to the inspector.

Varieties of plants.--The list of plants, including greenhouse, perennial, and nursery-stock types treated experimentally, is subject to continual expansion and, moreover, is too great to include in these instructions.

The schedule for the fumigation of strawberry plants as specified in subsection (1) (5) (ii) of § 301.48b [page 14 of the mimeographed edition of curcular B. E. P. Q. 499] remains the same as heretofore.

This supplement supersedes Supplement No. 1 - revised, dated September 27, 1940.

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